## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051682

Conversion Electron Spectrum of As 73

507/48-22-8-4/20

amounts during measurement and to compute the ratio of their yields in the nuclear reaction. The authors expressed their gratitude to B.M.Isayev, I.P.Selinov, Ye.Ye. Baroni and Ye.N.Khaprov. There are 3 figures, 3 tables, and 8 references, 3 of which are Soviet.

ASSOCIATION:

Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos.universiteta im.A.A.Zhdanova (Scientific Research Institute of Physics at the Leningrad State University imeni A.A.Zhdanov)

Card 3/3

Avotina, M. P., Grigor'yev, Ye. P.,

20-119-6-20/56

AUTEORS:

Zolotavin, A. V., Kratsik, B.

The Radiation From Tb 160 (Izlucheniye Tb 160)

TITLE:

Doklady Akademii mauk SSSR, 1958, Vol. 119, Nr 6,

PERIODICAL:

pp. 1127-1130 (USUR)

ABSTRACT:

The continuous spectrum, the spectrum of conversion electrons and the spectrum of photoelectrons from radioactive Tb 160 was measured by the authors by means of a spectrometer with double focussing. The sample was produced by irradiation of chemically pure Tb203 with slow neutrons. The continuous spectrum was examined by

means of a source with a thickness of ~1mg/cm2, which was produced by coating Tb203 on a mica base with a thickness

of ~1,5 mg/cm2. The results of the measurements are compiled in a table. The conversion spectrum was measured by means of sources with a thickness of from 4 to 5 mg/cm<sup>2</sup>. 19 lines were found, pertaining to 11 transitions to

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Dy 160. These results are also compiled in a table.

The Radiation From Tb 160

20-119-6-20/56

The general form of the  $\beta$ -spectrum is illustrated by a figure. The lines pertaining to the transitions to Dy with the energies 878 and 965 keV are double. These two transitions were also investigated in the decay of The line corresponding to the transition with the energy 877 keV is either a single line or its weak component is so soft, that it cannot be separated from the harder line. The relative intensities of the T-transitions were determined by division of the areas covered by the respective lines by the corresponding coefficient of photoelectronic absorption. The authors compared the relative intensities of some radioactive isotopes (e. g. x131, Sb124) known from publications with the intensities obtained on the basis of the measurements of the photo lines. For the discussed measurements the internal diameter of the source amounts to 0,3 mm. Therefore it should be possible to determine correctly the relative intensities in a wide energy range. The authors attempted the separation of the line 967 keV

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The Radiation From Tb 160

20-119-6-20/56

into its two components. The results of the measurements prove the existence of two components, the ratio of their intensities, however, could only be roughly estimated:  $I_{961}/I_{964} = 1_{-0,5}^{+1,0}$ . There are 3 figures, 4 tables, and 2 references, 2 of which are Soviet.

ASSOCIATION:

Fizicheskiy institut Leningradskogo gosudarstvennogo universiteta im. A. A. Zhdanova (Physics Institute of Leningrad State University imeni A. A. Zhdanov)

PRESENTED:

September 13, 1957, by A. A. Lebedev, Member, Academy of

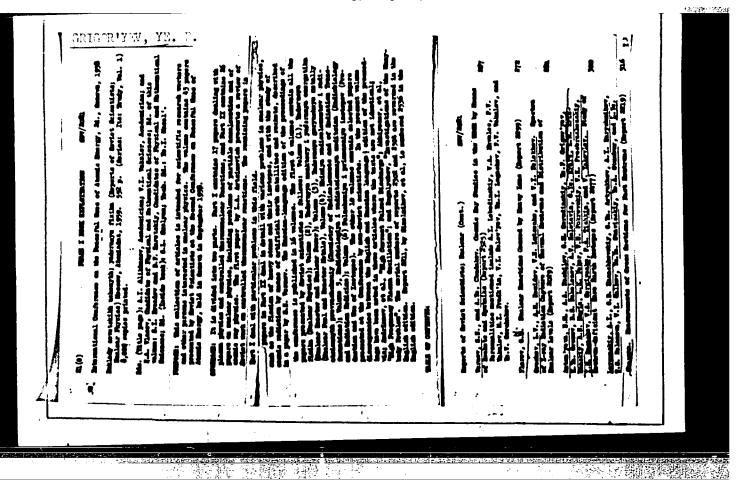
Sciences, USSR

SUBMITTED:

September 10, 1957

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051682



YUSHKEVICH, G.F., otv. za vypusk; ORIGOR'YEV, Yo.P., rod.; BREDIKHIN, A.M., kontrol'nyy rod.

[Instruments based on the application of radioisotopes and radiation; catalog] Pribory, osnovannye na primonenii radio-aktivnykh izotopov i izluchenii; katalog. Moskva, 1959.
31 p. (MIRA 12:11)

1. Mezhdunarodnaya peredvizhnaya vystavka priborov i sredstv izmereniya, primenyayemykh pri issledovaniyakh v sel'skokhozyaystvennykh nauchnykh uchreshdeniyakh. (Radioisotopes--Industrial applications) (Instruments)

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SOV/120-59-4-22/50

AUTHORS: Grigor'yev, Ye. P., Zolotavin, A. V.

生心情能够现代 肾髓色 穩稅

TITLE: Determination of the Form of the Pole Piece of a Magnet, Taking into Account the Edge Effect

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 4, pp 97-99 (USSR)

ABSTRACT: The problem which the authors had to solve was that of finding the pole piece profile for a β-spectrometer with double focussing and ensuring that the electron beam is focused even in the regions close to the edges of the magnet. Since the edge effect problem has not as yet been solved, the authors use a semi-empirical scheme which ensures that the required field distribution is realized to about 1.5%. If the method is used to reshape the pole pieces again, the required field may be obtained with an accuracy of 0.3%. Fig 3 shows the final profile of the spectrometer pole piece, ensuring double focusing over an angle of 1772 for the field suggested by Pavinskiy in Ref 6. The equilibrium orbit radius is 125 mm. The profile was calculated assuming μ = const along r. The experimental field coincides with the theoretical over 7% of the gap

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307/120-59-4-22/50

Determination of the Form of the Pole Piece of a Magnet, Taking into Account the Edge Effect

radius. Acknowledgment is made to B. S. Dzhelepov for valuable discussions. There are 5 figures and 7 references, of which 3 are Soviet, 1 Swedish and the rest are English.

ASSOCIATION: Leningradskiy gcsudarstvennyy universitet (Leningrad State University)

SUBMITTED: June 28, 1958.

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21(3) Grigor'yev, Ye. P.,

AUTHORS:

307/48-23-2-2/20 Zolotavin, A. V., Klement'yev, V. Ya.,

Sinitsyn, R. V.

Determination of the Relative Intensities and Conversion, Co-TITLE:

efficients of Transitions Produced During the Decay of Se75 (Opredeleniye otnositel'nykh intensivnostey i koeffitsiyentov konversii perekhodov, voznikayushchikh pri raspade Se<sup>(5)</sup>)

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, PERIODICAL:

Vol 23, Nr 2, pp 159-184 (USSR)

At the beginning, the authors report on data obtained up to now on the Ge75 -> As75 - Se15 decay, and the spectrometers, ABSTRACT:

sources and conditions of measurement of the investigations explained in this paper are described as follows: the magnetic spectrometer used for measurement had a double focusing, and the half width of electron lines in the spectrometer conditioned by the apparatus amounted to 0.4%. The conversion spectrum was measured in the presence of radiation sources of different thickness: 0.05, 0.25, 5 mg/cm<sup>2</sup>. For the purpose of determining

the spectral lines of photoelectrons thin targets of silver, lead, bismuth and other elements were used. The determinations

covered 1) the relative intensities Ly of the spectral lines Card 1/5

CIA-RDP86-00513R000516820 APPROVED FOR RELEASE: Thursday, July 27, 2000

Determination of the Relative Intensities and Conversion Coefficients of Transitions Produced During the Decay of Se<sup>15</sup>

of photoelectrons of Se 75; the authors recorded the whole spectrum with Bi-target o = 0.1 mg/cm2, the energy range up to  $\sim$  100 kev with Ag-targets  $\sigma = 0.25-0.03 \text{ mg/cm}^2$ , the range up to 401 kev inclusive with As-target,  $\sigma = 0.25 \text{ mg/cm}^2$ , the line 572 kev with particularly thick Ta, Pb, and Bi-targets up to  $\sigma = 80 \text{ mg/cm}^2$  (Figs 2-6). The energies obtained and the corresponding  $I_{\gamma}$  are listed in table 1. The intensity of the transition h) = 265 kev was assumed as a reference quantity equal to 100. For comparison , tables 1 and 2 contain also data obtained by other authors. For the purpose of checking the spectral sensitivity of the apparatus the relative intensities of  $\gamma$ -lines of Sb<sup>124</sup> were compared with the values mentioned in paper (Ref 47), in which investigations were carried out by means of the calibrated standard y-spectrometer "Elotron" (Tables 4, 5 and table 6 give a comparison with Tb160). A possible error in the determination of  $I_{\gamma} \leqslant 15\%$ results from the comparisons. 2) The authors measured the electron spins of internal conversions of Se75. They obtained 26 conversion lines produced by 12 transitions in As (Figs 7-12),

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SOV/48-23-2-2/20 Determination of the Relative Intensities and Conversion Coefficients of Transitions Produced During the Decay of Se (5)

among which there are also the lines of Auger electrons K-LL, K-LM, K-MM. Their energies, intensities  $I_{\gamma}$  and origin are listed in table 7. According to a comparison with data obtained by other authors the best accordance was found with Schardt and Welker (Ref 10). For the purpose of determining the conversion coefficients from  $I_{\gamma}$  and  $I_{K}$  two methods were applied:

a) from a comparison of the experimental values  $I_K/I_\gamma$  with the conversion coefficients of transitions 265, 280, 305, 401 kev according to Bashilov and Il'in (Ref 45)(Table 8); the mean value  $\alpha_K/(I_K/I_\gamma)$  was used for determining the con-

version coefficients of the other transitions; b) from the E1 transition of the transitions 121, 235, 401 kev the conversion coefficients of the other transitions were determined in the above-mentioned way. The values obtained in both ways agree well with one another. On the basis of a comparison between the theoretical and experimental values agree we authors

determined the multipole order of all transitions obtained (Table 9). According to the analysis of the scheme of As75 decay by means of Coulomb excitation and inelastic neutron

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SOV/48-23-2-2/20 Determination of the Relative Intensities and Conversion Coefficients of Transitions Produced During the Decay of Se<sup>()</sup>

scattering the authors determined the existence of the excitation states  $\sim 200$ , 281, 574, 780, 814, 1020, 1250, 1633 kev. The spectrum of Ge<sup>75</sup> was studied by the method of  $\beta$ - $\gamma$ -coincidence and the levels 199, 265, 477, 628 kev were obtained (Table 10). The  $\gamma$ -spectrum and  $\gamma$ - $\gamma$ -coincidence from papers (Refs 10 and 25) are given in table 11. Furthermore, the quantum characteristics of the ground state As<sup>7</sup>, Se<sup>75</sup>, Ge<sup>75</sup> were determined to be 3/2, 5/2, 1/2. The quantum characteristics of the levels 265, 280 and 401 kev were determined as well. The intensity equilibrium in the Se<sup>75</sup> decay is mentioned in tables 13, 14. The quantities lg of are in accordance with selection rules. According to these results the scheme of the  $G^{75} \longrightarrow As^{75} \longleftarrow Se^{75}$  decay is established (Fig 13). Similarities of parity with neighboring nuclei are contained in table 15. On the basis of the one-particle model the authors give two possible explanations of the ground state of the nuclei 34 and 33 As<sup>75</sup> as well as of the levels of As<sup>75</sup> at 199, 256, 280, 305 and 401 kev in table 17. There are 13 figures, 17 tables, and 55 references, 19 of which are Soviet.

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Determination of the Relative Intensities and Conversion Coefficients of Transitions Produced During the Decay of Se

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova (Scientific Research Institute of Physics of Leningrad State

University imeni A. A. Zhdanov)

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SOV/48-23-2-4/20 21(7) Grigor'yev, Ye. P., Dzhelepov, B. S., Zolotavin, A. V. AUTHORS:

Decay of Yb 166 - Tu 166 -Er 166 (Raspad Yb 166 - Tu 166 -Er 166) TITLE:

Izvestiya Akademii nauk BSSR. Seriya fizicheskaya, 1959, PERIODICAL:

Vol 23. Nr 2, pp 188-190 (USSR)

An error occurred in the spectral analysis of this reaction ABSTRACT: since the energies of the most intense transitions in

Tu 166 produced by decay of Yb and in Er 166 produced by Tu 166 were near 80 kev in both cases. For the purpose of explaining and determining the levels the authors studied the conversion spectra by means of the  $\beta$ -spectrometer with double focusing and a half width of lines of 0.3%. The resolving power permitted the separation of  $L_{\rm I}$  +  $L_{\rm II}$ ,  $L_{\rm III}$  and M and N lines.

Table 1 shows the corresponding lines of transitions 81.0 kev in Tu 166 and 79.4 kev in Er 166. Transition 79.4 in Er 166 agrees well with the theoretical transition type E2. M1 represents the transition type at 81.0 kev in Tu 100. A distinctly marked difference results from a comparison of the relative intensities of conversion lines of Tu<sup>166</sup> and Er<sup>166</sup> in

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Decay of Yb  $^{166} \longrightarrow Tu^{166} \longrightarrow Er^{166}$ 

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equilibrium state with values obtained by other authors (Ref 3) (Table 2). The conversion coefficient for  $\text{Er}^{166}$  with  $\alpha_{\text{K}} = 1.8$  for E2 transition and  $\text{Tu}^{166}$  for transition M1 amounts to 3+1 and 4, respectively. The ratio of intensities of the individual transitions in  $\text{Tu}^{166}$  and  $\text{Er}^{166} = 0.75 \pm 0.3$ . The authors thank the researchers of the Olyal and RIAN for radioactive sources, O. V. Larionov, M. K. Nikitin,, researchers of the LGU for separation of the Yt- and Tu fraction, as well as L. K. Peker for discussions. There are 3 figures, 4 tables and 5 Soviet references.

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova (Scientific Research Institute of Physics of Leningrad State University imeni A. A. Zhdanov)

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SOV/48-23-2-5/20 21(7) AUTHORS: Grigor'yev, Ye. P., Zolotavin, A. V., Kratsik, B.

Radiation of Tb 160 (Izlucheniye Tb 160) TITLE:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, FERIODICAL:

Vol 23, Nr 2, pp 191-203 (USSR)

In the present paper the authors investigated the  $\beta$ -spectrum ABSTRACT: and the spectra of internal and external conversions of  $\beta\text{-transitions}$  accompanying  $\text{Tb}^{160}$  decay. In addition to

experimental data known about Tb  $^{160}$  (Refs 1, 2), this paper contains further data on the  $\beta$ -spectrum with thin radiation sources as well as on some transitions between the levels

of the Dy 160 nucleus. Tb 203 with a purity of 99.99% was

irradiated in the reactor. Within the individual ranges of energy < 250 kev, 200 - 600 kev, > 600 kev sources with different surface density were used. Data and comparison with results obtained by other authors are contained in table 2.

The analysis of the spectrum obtained was performed on the assumption of a Fermi shape and a unique shape of the spectrum

according to the method devised by Curie-Richardson-Fakstone. The Card 1/3

Radiation of Tb 160

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authors obtained excitation levels from which  $\beta$ -transitions occurred at 1565, 1358, 1264, 966, 865 kev. The level 1156 kev resulted from the decay of Ho<sup>160</sup>. Limit energies and relative intensities of the softer components coincide in both analyses. The spectrum of conversion electrons was recorded with the sources applied in recording the  $\beta$ -spectrum. Besides the transitions already obtained an additional one was found at 289 kev. The other resulting energies and intensities are in accordance with those of the  $\beta$ -spectrum. (Table 3). The conversion lines of the transition at 1273 kev were studied and it was found that they are composed of the lines K-1273, L-1273 and K-1314. The spectrum of γ-rays was measured by means of Ag, Au, Bi and Th targets. The conversion coefficients were compared to the theoretical values contained in paper (Refs 14, 19), in which the 1973 kev transition was regarded as an E2 transition. The multipole orders of the individual transitions were determined according to the theoretical and experimental values of  $\alpha_{K}$ .

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Radiation of Tb 160

SOV/48-23-2-5/20

The theoretical values were adopted from tables published by Sliv and Band (Refs 14, 19). On the basis of the results obtained the decay scheme was established, which was discussed in detail. For the purpose of determining the intensities and intensity equilibria the intensities of transitions into the ground state with  $\frac{1}{7}$ %6 +  $\frac{1}{7}$ %966 +  $\frac{1}{7}$ %1201 = 100 were used. There are 5 figures, 9 tables, and 20 references, 11 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova (Scientific Research Institute of Physics of Leningrad State University imeni A. A. Zhdanov)

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SOV/48-23-7-17/31 Grigor'yev, Ye. P., Dzhelepov, B. S., Zolotavin, A. V. 21(7) On the Transitions Er  $^{160}$  Ho  $^{160}$  and Yb  $^{166}$  Tu  $^{166}$  (O perekhodakh Er  $^{160}$  Ho  $^{160}$  i Yb  $^{166}$  Tu  $^{166}$ ) AUTHORS: TITLE: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, PERIODICAL: Vol 23, Nr 7, pp 864-867 (USSR) In the introduction, it is ascertained that in a number of papers the decays Er 160 Ho 160 Dy 160 and ABSTRACT: Yb 166 Tu 166 have been investigated, and that the authors in the present paper are concerned with some peculiarities of the first transitions of these chains. It is pointed out that two isomeric states of the isotope Ho 160 are known, which have different half-lives and the quantum characteristic of which is not known. By theoretical investigations, it was found out that the lower excited states of the odd-odd nuclei must necessarily have two levels which have the same parity. The types of the states of the isotope Er are investigated. Allowed and first forbidden decays take place in the isotope Card 1/3

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On the Transitions Er 160 Ho 160 and Yb 166 Tu 166 SOV/48-23-7-17/31

Er 160 to 160 do not exceed 1 Mev. The authors further assert that the Er 160 decays passing the so-called five-hour isomer do not take place on the levels 5<sup>+</sup>,2<sup>-</sup> and 2<sup>+</sup> but on any other higher level. In the investigation of the decay Yb 166 Tu 166 it is first ascertained that the odd-odd nuclei of the isotope Tu 166 have an excited level with the energy of 81 kev, and they are assigned to the type M1. Further it is stated that other levels of the isotope Tu 166 are not known, and that a positron spectrum corresponding to the transition Yb 166 Tu 166 was not found. The mass defect of the Yb 166 and Tu 166 nuclei is indicated with 117 kev (according to Cameron) and with 436 kev (according to Riddel), and the decay energy of Yb is evaluated with not over 1,000 kev. The authors thank

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On the Transitions Er<sup>160</sup>  $\rightarrow$  Ho<sup>160</sup> and Yb<sup>166</sup>  $\rightarrow$  Tu<sup>166</sup> SOV/48-23-7-17/31

L. N. Zyryanova for contributing her knowledge on the \$\beta\$-systematics, and L. K. Peker for the discussion of the results. There are 3 figures and 19 references, 8 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel skiy fizicheskiy institut Leningradskogo

gos. universiteta im. A. A. Zhdanova

(Scientific Research Institute of Physics of the Leningrad

State University imeni A. A. Zhdanov)

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SOV/48-23-7-18/31

21(7) AUTHORS: Grigor'yev, Ye. P., Dzhelepov, B. S., Zolotavin, A. V.,

Kratsik, B., Bitterlikh, C.

TITLE:

The Decay of Ho 160 and the Level Scheme of Dy 160 (Raspad Ho 160 i skhema urovney Dy 160)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 7, pp 868-874 (USSR)

ABSTRACT:

In a previous paper (Ref 1), the authors had already determined the level scheme of Dy but in considering all factors they come to the result that the upper level does not amount to 1718 kev, but that in the decay of the isotope Ho 160 excited states with energies up to 2900 kev occur. In the present paper, results of an investigation of the transitions with high levels

of the isotope Dy 160 are put forward. The spectra of the positrons and of the electrons of the internal conversion were recorded by a \$ -spectrometer. The obtaining of the radioactive

sources is dealt with, and the investigation of the  $\beta^+$ -spectrum in the range of weak energies is described. In the range under

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The Decay of  $\mathrm{Ho}^{160}$  and the Level Scheme of Dy  $^{160}$ 

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160 kev, a positron excess is observed which is connected with a soft component. The components of the spectrum are shown in a diagram (Fig 1). The balance of the intensities for the transitions in the isotope Ho 160 shows that the transition with 60 kev amounts to 60% of the decay. It is further concluded that the number of positrons in the decay is equal to 0.36%. The authors found 55 new conversion lines which are compiled in table 2 together with the known lines. The experimental results were compared with the theoretical results, and it became clear that some L-lines are superimposed by K-lines of other transitions. Figures 2 and 3 show two ranges of the spectrum of the conversion electrons, the half-width of these lines is indicated, and it is ascertained that in figure 2 there is a group of lines the identification of which is very difficult. From the results obtained hitherto in this

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## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051682

The Decay of Ho 160 and the Level Scheme of Dy 160 SOV/48-23-7-18/31

paper, and in other papers, the extensive level scheme of the isotope Dy 160 is set up, and the balance of the intensities in Ho 160 is evaluated. There are 4 figures, 3 tables, and 4 Soviet references.

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova (Scientific Research Institute of Physics of the Leningrad State University imeni A. A. Zhdanov)

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APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

### CIA-RDP86-00513R00051682 "APPROVED FOR RELEASE: Thursday, July 27, 2000

24(5) AUTHORS: Grigor'yev, Ye. P., Zolotavin, A. V.

sov/56-36-2-7/63

TITLE:

On the Relative Probabilities of the Photoeffect in Shells and

Subshells of the Atom (Ob otnositel'nykh veroyatnostyakh

fotoeffekta na obolochkakh i podobolochkakh atoma)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 2, pp 393-400 (USSR)

正古音響響響。周漢蓋藍母響。四話語。

ABSTRACT:

In their introduction the authors first discuss several theoretical works concerning investigations of the photoeffect in the K-shell; Heitler (Gaytler) (Ref 1) investigated the relativistic case and supplied a formula of the photoeffect cross section in Born's approximation, Stobbe (Shtobbe)(Ref 2)

and Hall (Kholl) (Ref 3) published more accurate results. Sauter

(Zauter) (Ref 4) and Hulme (Khulm) (Ref 5) calculated the probability for the photoeffect in Born's approximation by using a relativistic wave function, and Hall (Ref 6) derived a simple

formula for hv >mc2. Hulme et al. (Ref 7) calculated tk still

more accurately for 3 elements and 2 different y-energies. Experimental works: a) Marty (Marti)(Ref 8), measurements of

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On the Relative Probabilities of the Photoeffect in Shells and Subshells of the Atom

sov/56-36-2-7/63

the relative photoabsorption coefficient  $\tau_{_{\rm K}}/\tau_{_{\rm L}}$  for 140 and 411 kev. Comparison between experimental results and Hall formula for the relativistic case of Grigor'yev and Zolotavin et al. (Ref 9); b) Davidson and Latyshev (Ref 10) measurement of  $\tau_{\rm K}/\tau_{\rm L}$  for E = 2614 kev as amounting to 4.8(Pb) and 5.3(Ta). In references 11 and 12 Latyshev found the values 4.9 and 5.4 respectively. c) Bazin (Ref 13) measured the photoabsorption coefficient for the molybdenum line  $K_{\infty_1}(hv = 17.5 \text{ keV})$ on several targets. The results obtained for sulfur, chromium, silver, and selenium are given. d) Havekov, Hultberg (Khultberg), and Andersson (Ref 14) found  $\tau_{K}/\tau_{L^{\pm}}$  5.5 (uranium target) for  $E_{p'} = 516$  and 880 kev. The results published in the following by the authors of this paper were obtained from decay investigations of various isotopes which were carried out in the course of the past 5 years. Measurements were carried out by means of a  $\beta$ -spectrometer (cf. Ref 15). The lines of photoelectrons, produced by the absorption of monochromatic y-radiation on K-, L-I.II.III and M+N shells of various

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On the Relative Probabilities 507/56-36-2-7/63 of the Photoeffect in Shells and Subshells of the Atom

elements were investigated. The lines had an (energy-dependent) half width of 0.4 - 0.8%. An axially symmetric source and a thin target were used in this case (cf. Fig 1 and Refs 16, 17). It is assumed with justification that the angular distribution of the photoelectrons in energy intervals (0.1-2.0) Kev, which varies with quantum energy within the limits of 15%, does not influence

results. The following was determined:

1) The ratio  $(\tau_{L_I} + \tau_{L_{II}})/\tau_{L_{III}}$ . Results are shown by table !

and by figures 2 and 3. The table shows the measuring data, compared with theoretical data, for 4 different hy-values.

Z = 83, bismuth target 0.1 mg/cm<sup>2</sup>, y-sources: Se<sup>75</sup> and Tb<sup>160</sup>.

Figure 2 shows the L<sub>I</sub>+L<sub>II</sub>- and the L<sub>III</sub>-line of the photoelectrons of y-rays from Tb<sup>160</sup> with E<sub>Y</sub> = 86.6 keV,

Bi-target 0.25 mg/cm<sup>2</sup>, figure 3 shows the same lines for

E<sub>Y</sub> = 265 keV from Se<sup>75</sup> with Bi-target 0.1 mg/cm<sup>2</sup>.

2) The ratio T<sub>I</sub>/T<sub>M</sub> was determined for y-radiation of various

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On the Relative Probabilities of the Photoeffect in Shells and Subshells of the Atom

energies on various targets as amounting to  $\mathcal{T}_L/\mathcal{T}_M=3.5\pm0.5$ .

3) The ratio  $\mathcal{T}_K/\mathcal{T}_L$ . Table 2 contains the measuring results for different targets (Ag. Sb. Pt. Au. Pb. Bi. Th.) of different thicknesses (0.25 - 13.0 mg/cm²) and for different freenergies (121 - 1696 kev). Figures 4a,b show the K- and the L and MeN-peaks of photoelectrons with use of fradiation of J¹3¹ with an energy of 364 kev; Bi-target, 3 mg/cm². Figure 5 shows the dependence  $\mathcal{T}_K/\mathcal{T}_L$  on Z in comparison with the results obtained by other authors. Figure 6 shows the dependence  $\mathcal{T}_K/\mathcal{T}_L$  on Exfort targets from heavy elements, and figure 7 shows the same for silver- and antimony targets.

4) The share of  $\mathcal{T}_K$  in the total absorption coefficient. Figure 8 shows the dependence  $\mathcal{T}_K/\mathcal{T}_L$  on Z in comparison with the theoretical Allen's curves.

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#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051682

SOY/56-36-2-7/63 On the Relative Probabilities of the Photoeffect in Shells and Subshells of the Atom

> The authors in conclusion thank Professor B. S. Dzhelepov for his advice and discussions, and N. A. Bonch-Osmolovskaya for allowing them to make use of his survey of the photoeffect before its publication. There are 8 figures, 2 tables, and 20 references, 7 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet

(Leningrad State University)

SUBMITTED:

August 16, 1958

Card 5/5

s/048/60/024/03/12/019 B006/B014

AUTHORS:

Grigor'yev, Ye. P., Avotina, M. P.

TITLE:

A Comparison Between the Theory of Nonaxial Nuclei and

Experiment

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 3, pp. 324-335

Service of the servic

TEXT: The article under review was read at the Tenth All-Union Conference on Nuclear Spectroscopy (Moscow, January 19 - 27, 1960). The theory of deformed nuclei put forward by Bohr and Mottelson is in close agreement with experimental results within the ranges 150 < A < 190, and A > 122, especially concerning the theoretical prediction of transition probability ratios. Near the limits of this range (for Sm152, Gd154, Os186, Os188 and Os190), however, experimental observations partly deviate from theoretical predictions considerably. A. S. Davydov, G. F. Filippov, and V. S. Rostovskiy (Refs. 6-9) developed a theory of rotational levels of even-even nuclei based on the assumption that the

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A Comparison Between the Theory of Nonaxial Nuclei and Experiment

S/048/60/024/03/12/019 B006/B014

nuclei have a non-axisymmetric equilibrium shape. The deformation parameter y is between 00 and 600. These two limits correspond to the cases of axial symmetry. y = 300 describes the maximum of deviation from axial symmetry (ellipsoid of revolution). The conclusions to be drawn from this theory are discussed here, and it is shown that experimental results (concerning the nuclei on the edges of the abovementioned range of atomic weight) may be better described by corrections to level energies based on this theory. Davydov and Filippov derived formulas for determining the level energy as functions of  $\gamma$ ; here, the energy is given in units of  $\hbar^2/4B\beta^2$ . The respective functions  $E=f(\gamma)$ for a series of elements as compared to experimental results are given in Fig. 1 (B is the inertia parameter,  $\beta$  the deformation parameter). The formulas for the energies of 2+, 5+, and 3+ levels are given by equations (1), (2), and (3). The theory of nonaxial nuclei permits a determination of the probabilities of E2 transitions between all rotational levels. These probabilities are functions of y. Equations (9)-(11) give three such formulas. Theoretical transition probabilities are compared with experimental values in Figs. 2 and 3. Next, the

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APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

A Comparison Between the Theory of Nonaxial Nuclei and Experiment

S/048/60/024/03/12/019 B006/B014

authors discuss the portions of E2- and M1 multipoles in 22->2 transitions which result from Davydov's theory. The second part of the present paper deals with a comparison between theoretical relations and experimental results. Theoretical corrections to the level energies for 15 nuclei are contained in Table 1. The transition probability ratios for several E2 transitions are discussed, and the intensity ratios

 $\delta^2 = \frac{I(E2)}{I(M1)} \text{ for } 2\frac{1}{2} \longrightarrow 2\frac{1}{1} \text{ transitions resulting from Davydov's theory are}$ 

given and compared with experimental results (Table 2). Experimental data on nuclei the spectra of which may be explained by the theory of nonaxial nuclei, are supplied in a table attached to this paper. In conclusion, it is noted that Davydov's theory gives an exact definition of certain nuclear-spectroscopic data. The authors thank L. K. Peker and M. A. Listengarten for their assistance and interest. There are 3 figures, 3 tables, and 78 references, 16 of which are Soviet.

Card 3/4

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# "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051682

A Comparison Between the Theory of S/048/60/024/03/12/019
Nonexial Nuclei and Experiment Boo6/B014

ASSOCIATION: Nauchno-issledovatel'skiy fizioheskiy institut
Leningradskogo gos. universiteta im. A. A. Zhdanova
(Solentific Research Institute of Physics of Leningrad
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S/048/60/024/007/017/032/XX B019/B056

24.6720 AUTHORS:

Grigor'yev. Ye. P., Sakharov, S. L., and Sergeyev, V. O.

TITLE:

The x-Spectra of the Isotopes of the Lanthanum Fraction

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 7, pp. 839-840

TEXT: This paper was read at the 10th All-Union Conference on Nuclear Spectroscopy, which took place from January 19 to January 27, 1960 at Moscow. The measurements were carried out by means of a scintillation spectrometer. The lanthanum fraction of rare earths obtained by irradiation of tantalum with protons was investigated. The authors were able to find a very intensive 470-kev -line with a halflife of 18 hours. This line may be

ascribed to the La 135. By using the decay scheme set up by Mitchell et al. (Ref. 2), it was possible to determine the relative yield of La 135 in the nuclear reaction. From the discussion of their own results and those obtained by other authors, the authors draw the conclusion that, if La 133 (halflife 4 hours) exists at all, it does not exceed 10% of La132. This

Card 1/2

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051682

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The r-Spectra of the Isotopes of the Lanthanum Fraction

S/048/60/024/007/017/032/XX B019/B056

opinion is confirmed by results obtained by Riddel (Ref. 6) and Cameron (Ref. 7), which are given in Table 1. Therefore, the largest fraction of x-emission is ascribed to La<sup>132</sup>. The yield ratio of La<sup>132</sup> to La<sup>135</sup> is given as 100; 80. There are 1 figure, 1 table, and 8 references: 1 Soviet. 6 US.

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova (Scientific Research Institute of Physics of Leningrad State University imeni
A. A. Zhdanov)

Card 2/2

85585

S/048/60/024/007/018/032/XX B019/B056

24,6720 AUTHORS:

Grigor'yev, Ye. P., Larionov, O. V., Nikitin, M. K., Sakharov, S. L., and Sergeyev, V. O.

TITLE:

The Determination of the Halflife of Dy 159, Ho 160\*, Tu 166

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 7, pp. 841-844

TEXT: This paper was read at the 10th All-Union Conference on Nuclear Spectroscopy, which took place from January 19 to January 27, 1960 at Moscow. The isotopes investigated were obtained by the irradiation of Tatargets with 660-Mev protons in the synchrocyclotron of the Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research) and a subsequent chemical and chromatographical separation. For determining the halflife an end-window counter was used, which was protected by a Pb-shield.

As a control isotope, Dy 159 was selected. The authors determined a halflife  $T = 139 \pm 10$  days, which agrees with the data obtained by other

card 1/2

The Determination of the Halflife of Dy 159, Ho 160 4, Tu 166, and Lu 173

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S/048/60/024/007/018/032/XX B019/B056

authors. For Ho<sup>160</sup> a T =  $4.76 \pm 0.10$  hours was determined. B. S. Dzhelepov et al. obtained  $T = 5.3 \pm 0.2$  hours, and G. M. Gorodinskiy et al. obtained 5 hours (Table 1), whereas Wilkins and Hiks obtained 4.6+0.1 hours. In Table 2 the value of  $T = 7.74 \pm 0.08$  hours determined is given for Tu  $^{166}$ . Gorodinskiy obtained T = 8, and Wilkins et al. T = 7.7  $\pm$  0.1 hours. The halflife of Lu  $^{173}$  was determined by measurements, which ex-

tended over 9 months after separation of the lutetium fraction. The authors obtained T =  $480 \pm 30$  days. The values obtained by other authors: Mihelich: 510 days; Wilkinson: 500 days; Bichard: 480 days; Gorodinskiy: 200 days; B. K. Preobrazhenskiy et al.: 150-200 days; V. Romanov et al.: 160 days. The three values showing considerable deviations were obtained at the Radiyevyy institut (Radium Institute), and at the Fiziko-tekhnicheskiy institut (Institute of Physics and Technology) at Leningrad. There are 5 figures, 3 tables, and 18 references: 6 Soviet and 12 US.

ASSOCIATION: Nauchno-issledovatel skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova (Scientific Research Institute of Physics of Leningrad State University imeni A. A. Zhdanov)

Card 2/2

S/048/60/024/007/019/032/XX B019/B056

24.6720 AUTHORS:

Grigor'yev, Ye. P., Larionov, O. V., Nikitin, M. K.,

Sakharov, S. L., and Sergeyev, V. O.

TITLES

The Y-Spectra of the Isotopes of the Tantalum Fraction

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 7, pp. 845-846

TEXT: This paper was read at the 10th All-Union Conference on Nuclear Spectroscopy, which took place from January 19 to January 27, 1960 at Moscow. In the synchrocyclotron of the OIYaI, a Ta-target was irradiated with 660-Mev protons, following which, tantalum was separated and the radioactive Ta-isotopes were investigated by means of an automatic scintillation-y-spectrometer. According to the halflife of the y-lines, the Ta-isotopes may be subdivided into two groups. There are some isotopes with a halflife T of roughly 8 hours, and others with T = 53 hours. The energy and the relative intensities of the y-lines of those Ta-isotopes whose T is about 8 - 11 hours, are given in Table 1:

Card 1/2

The r-Spectra of the Isotopes of the Tantalum S/048/60/024/007/019/032/XX Fraction B019/B056

210<u>+</u>10 270 350 500 1150 1700

By comparison with data obtained by other authors, the authors draw the conclusion that in their Ta-fraction the isotopes Ta 176 (8 hours) and Ta<sup>175</sup> (11 hours) are present. In Table 2, the energies and the relative

intensities of the hard g-lines of the Ta-isotope of a halflife of 8 hours are given:

Er [Mev] 1.7 2.2 - 2.3  $\mathbf{I}_{\mathcal{F}}$ 3

These hard lines may possibly belong to a Ta 176-decay. From the data obtained here, the authors conclude that the mass difference between

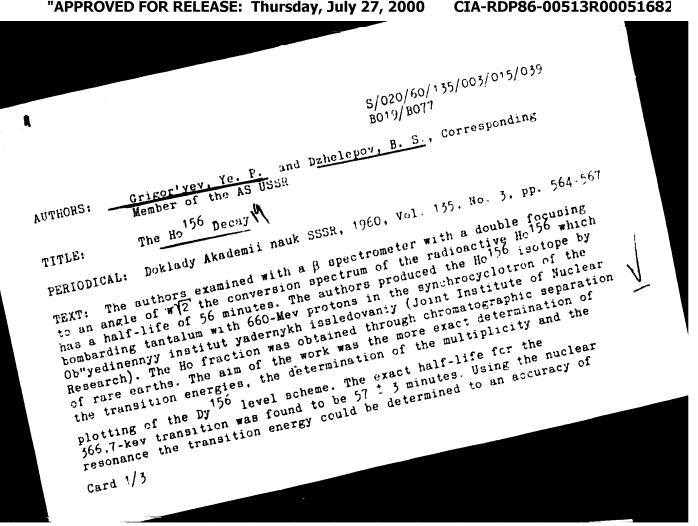
 $\mathrm{Ta}^{176}$  and  $\mathrm{Hf}^{176}$  is more than 3 Mev. There are 2 figures, 2 tables, and 7 references: 1 Soviet and 6 US.

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova (Scientific Research

Institute of Physics of Leningrad State University imeni

A. A. Zhdanov)

Card 2/2



The Ho 156 Decay

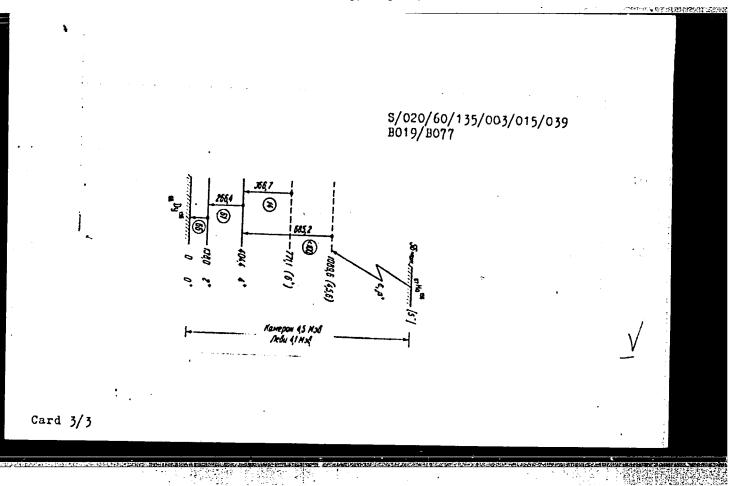
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results. An extended discussion of the scheme points out the differences between the Bohr-Mottelson theory and the level schemes of neighboring isotopes. The authors thank V. A. Khalkin and I. A. Yutlandov for the separation of the Ho fraction. A. S. Basin, K. Ya. Gramov, N. A. Bonch-separation of the Ho fraction. A. S. Basin, K. Ya. Gramov, N. A. Bonch-Osmolovskaya, B. S. Dzhelepov, O. Ye. Kraft, Chahou Yuye-Va, and A. V. Kalyamin are mentioned. There are 1 figure, 5 tables, and 5 references: 4 Soviet and 1 US.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov) Radiyevyy institut im. V. G. Khlopina Akademii nauk SSSR (Radium Institute imeni V. G. Khlopin, Academy of Sciences, USSR)

SUBMITTED: July 27, 1960

Card 2/3



#### GRIGOR'YEV, YE. P.

Cand Phys-Math Sci, Diss -74 "Investigation of the radiation and decay patterns of As'3, As'4, Holbo, Erl60 + Holboybl65 + Tul66 and Lul68". Leningrad, 1961. 7 pp, 20 cm (Radium Inst imeni V. G. Khlopin. Acad of Sci USSR), 200 copies, Not for sale, 16 ref in bibl on pp 6-7 (KL, No 9, 1961, p 175, No 24249). \_61-523637

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

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GRIGOR'YEV, Ye.P.; GROMOV, K.Ya.; DZHELEPOV, B.S.; ZHELEV, Zh.T.;

ZVOL'SKA, V.; ZVOL'SKIY, I.

Decay of Ybl66 → Tul66 → Erl66. Izv AN SSSR.Ser.fiz. 25
no.10:1217-1227 0 '61. (MIRA 14:10)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova,
Ob\*yedinennyy institut yadernykh issledovaniy.

(Ytterbium—Decay) (Thulium—Decay) (Erbium—Decay)

· [2] 李春春 [李春春] 李春 [2]

GRIGOR'YEV, Ye.P.; GROMOV, K.Ya.; DZHELEPOV, B.S.; ZVOL'SKA, V.; ZOLOTAVIN, A.V.; VEIS, M.; VAN YUN-YUY [Wang Yung-Yu]

Decay of the two-hour isotope Lu<sup>168</sup>. Dokl. AN SSSR 136 no.2:325-328 '61. (MIRA 14:1)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova 1 Ob'yedinennyy institut yadernykh issledovaniy. 2. Chlen-korrespondent AN SSSR (for Dahelepov). (Lutetium—Isotopes)

s/020/61/136/002/014/034 B019/B056

AUTHORS:

Grigor'yev, Ye. P., Gromov, K. Ya., Dzhelepov, B. S., Corresponding Member of the AS USSR, Zvol'ska, V., Zolotavin, A. V., Veys, M., and Van Yun-yuy

TITLE:

The Decay of the Two-hour Isotope Lu

PERIODICAL:

Doklady Akademii nauk SSSR, 1961, Vol. 136, No. 2, pp. 325-328

TEXT: In the lutetium fraction forming in the course of an irradiation of tantalum with 660-Mev protons, conversion lines were discovered, which had a period of two hours. The authors investigated the lutetium isotope to which these lines belong. For this purpose they used a  $\beta$ -spectrometer with double focusing, the magnetic field was measured by means of proton resonance, and calibration was carried out according to exactly known lines. Recording was carried out by means of two Geiger-Müller counters. Three conversion lines with a period of (2.15 ± 0.20) hours were discovered; closer details are given in Table 1. By comparing the energy differences between these three lines with X-ray data, it was found that the Lu-isotope goes over into an ytterbium isotope. From the close study Card 1/5

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051682

The Decay of the Two-hour Isotope Lu 168

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of the known Lu-isotopes, of their decays, and their spectra, the authors come to the conclusion that the required isotope with a period of 2.15 hours must be  $71^{168}$ , which has an odd-odd deformed nucleus. Fig. 3 shows the decay scheme of this isotope. There are 3 figures, 3 tables, and 5 references: 4 Soviet and 1 US.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova

(Leningrad State University imeni A. A. Zhdanov)
Ob"yedinennyy institut yadernykh issledovaniy (Joint

Institute of Nuclear Research)

SUBMITTED:

October 6, 1960

Card 2/5

ZUBOV, Vladimir Ivanovich. Prinimala uchastiye ZUBOVA, A.F.;
KANAHEV, L.Ye., retsenzenti GRIGOR VEV, Ye.P., nauchnyy
red.; SACHUK, N.A., red.; KONTUROVICH, A.I., tekhn. red.

[Vibrations in nonlinear and controlled systems] Kolebaniia v
nelimeinykh i upravliaemykh sistemakh. Leningrad, Sudpromgiz,
1962. 630 p.

(Vibration) (Automatic control)

(Differential equations)

GRIGOR'IEV, Ye.P.; DZHELEPOV, B.S.; ZVOL'SKA, V.; ZOLOTAVIN, A.V.;
MALISHEVA, T.V.; KHOTIN, B.A.; ADAM, I.

Conversion electrons from shortlived platinum and tungsten isotopes. Izv. AN SSSR. Ser. fiz. 26 no.1:120-124, Js. '62.

(MIRA 15:2)

1. Nauchno-issledovatel'sky fizicheskiy institut Leningradskogo gosudarstvennogo universiteta im. A.A.Zhdanova, Ob'ymdinennyy institut yadernykh issledovaniy i Institut geokhimii i analiticheskoy khimii im. V.I.Vernadskogo.

(Electrons)

(Platinum—Isotopes)

(Tungsten—Isotopes)

8/048/62/026/012/007/016 B117/B186

Grigor'yev. Ye. P., Peregud, B. P., Sergeyev, V. O., and AUTHORS:

Skopina, V. I.

Decay of Tu 166 TITLE:

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,

no. 12, 1962, 1488 - 1491

TEXT: A check was carried out on the divergent statements on Tu 166 decay in papers by Harmatz (B. Harmatz, T. H. Handley, J. W. Mihelich, Phys. Rev., 123, 1758 (1961)) and Grigor'yev (Ye. P. Grigor'yev, K. Ya. Gromov, B. S. Dzhelepov, Zh. T. Zhelev, V. Zvol'ska, I. Zvol'skiy, Izv. AN SSSR. Ser. Fiz., 25, 1217 (1961)). The quantum characteristics of the upper levels of Tu 166 were determined more accurately. Experiments using a double focusing y-prism spectrometer and a y-scintillation spectrometer confirmed as correct the results obtained by Grigor'yev et al. for the energies of the transitions and for the relative intensities of the conversion lines.

The two high levels with energies of 2134 and 2161 kev are heavily occupied when Tu 166 captures electrons; their y-transitions both take place to the Card 1/2

Decay of Tu 166

S/048/62/026/012/007/016 B117/B186

same lower-lying level of Er  $^{166}$ . To determine their exact characteristics, the multipole orders of the  $\gamma$ -transitions with energies of 2054 and 2081 kew were calculated from the conversion coefficients  $\alpha_K$ . It was shown that

agreement between theoretical and experimental values is possible only if both transitions, or at least the one with an energy of 2054 kev, have a multipole order of M2. Transitions with an energy of 2054 kev take place from the 2134 kev energy level to the 2+ level of the first rotational band. The 2134 kev energy level was assumed to have odd parity and, most probably, a spin of 3. This paper was read to the 12th Annual Conference on Nuclear Spectroscopy held in Leningrad from January 26 to February 2, 1962. There are 3 figures and 2 tables.

ASSOCIATION: Fizicheskiy institut Leningradskogo gos. universiteta (Physics Institute of the Leningrad State University); Fiziko-tekhnicheskiy institut Akademii nauk SSSR im. A. A. Zhdanova (Physicotechnical Institute of the Academy of Sciences USSR imeni A. A. Zhdanov)

Card 2/2

S/048/62/026/012/015/016 B117/B102

AUTHORS: Grigor'yev, Ye. P., Novikov, G. S., and Sergeyev, V.O.

TITLE: Genetic relation between the isomeric states of Ho

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 12, 1962, 1523 - 1524

TEXT: In order to determine the genetic relation between the 28-min Ho 160 and the 4.7-hr Ho 160-i.e. to prove that the decay of the long-lived isomer occurs via a state with the half-life 28 min - 5-spectra of Ho in the range of 500 - 900 kev were investigated using a secintillation spectrometer. It was shown that in the decay of Er 160 purified from Ho 160 the intensity of the 728-kev line increases in a different way from the intensity of the isomeric 60-kev transition and the transitions that occur in the Ho 160 isomer decay. Because of a comparative longevity of the Ho ground state the intensity of the 728-kev line increases after the separation of Er from Ho at first slowly and then rapidly. If the isomers Ho 160 and Ho 160 are in equilibrium, the 728 kev-line can easily be distinguished Card 1/3

S/048/62/026/012/015/016 B117/B102

Genetic relation between ...

from harder transitions of the Compton background. The half-life of the Ho 160 ground state was difficult to estimate from the data obtained. In spite of this it could be concluded, that the 720-kev transition does not occur immediately after the \( \begin{align\*} \) -decay of the 4.7-hr isomer but after the decay of the 28-min isomer. This paper was presented at the 12th Annual Conference on Nuclear Spectroscopy in Leningrad from January 26 to February 2, 1962. There are 2 figures.

ASSOCIATION: Nauchno issledovatel'skiy fizicheskiy institut Leningradskogo gos, universiteta im. A. A. Zhdanova (Scientific Research Institute of Physics of the Leningrad State University imeni A. A. Zhdanov)

Card 2/3

GRIGOR'YEV, YE. P.

Dissertation defended for the degree of <u>Candidate of Physicomathematical Sciences</u> at the Radium Institute imeni V. G. Khlopin in 1962:

"Investigation of Radiation and Decay Schemes of As73, As74, Ho156, Er160, Ho160, Yb166, Tu166, and Lu168,"

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

'ACCESSION NR: AP4025949

8/0056/64/046/003/1138/1139

AUTHOR: Grigor'yev, Ye. P.

TITLE: Half life of Tb-157

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 1138-1139

TOPIC TAGE: terbium 157, terbium 157 half life, decay rate, dysprosium 157 decay, tantalum proton bombardment, level scheme

ABSTRACT: The half-life of  $\text{Tb}^{157}$  was determined from the number of radioactive nuclei contained in the source and from the rate of decay  $\text{dN/dt} = -N_0 \log 2/\text{T}$ . The radioactive  $\text{Tb}^{157}$  was obtained as the product of the decay of Dy produced by bombarding tantalum with 660 MeV protons in the OIYaI synchro-cyclotron. The value obtained for the half-life is  $T_{1/2} = (2.8 \pm 1.2) \times 10^2$  years, which agrees,

Cord 1/4

## ACCESSION NR: AP4025949

within the limits of experimental error, with recent data obtained in Japan by S. Iwata et al. (Journal Physical Society Japan v. 18, 315, 1963), who obtained  $T_{1/2} = 160 \pm 40$  years. "The author is grateful to K. Ya. Gromov for making it possible to complete this project, to A. F. Novgorodov and N. A. Lebedev for the repeated chemical separation of the samples, to A. N. Silant'yev for establishing the activity of the source, to N. I. Anton'yeva and V. B. Smirnov for the use of the spectrometer with the multichannel analyzer, to V. N. Pokrovskiy for the use of the Csl37 standard samples, to M. P. Avotina, V. G. Kalinnikov and V. O. Sergeev for their assistance in the measurements, and to L. K. Peker and V. G. Solov'yev for discussing the results." Orig. art. has: 1 figure.

ASSOCIATION: Fizicheskiy institut Leningradskogo gosudarstvennogo universiteta (Physics Institute of the Leningrad State University)

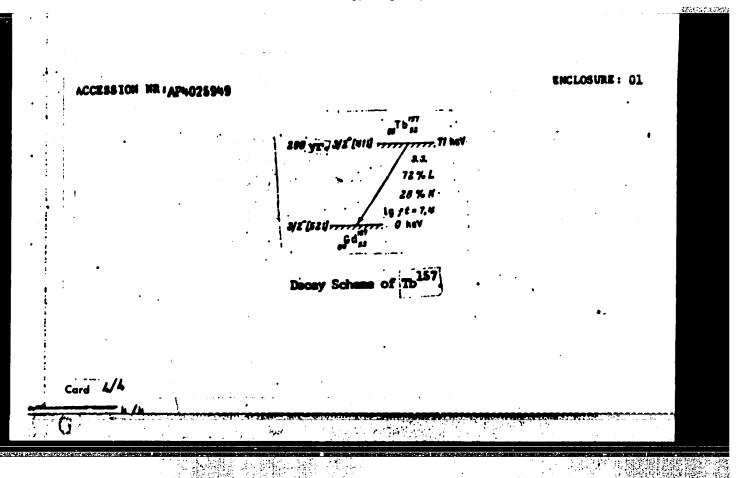
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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051682

	SUBMITTED: 26Jun63 DATE ACQ: 16Apr64	ENĈL: 01
	SUB CODE: NP NR REF SOV: 001	OTHER: 002
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Car	d3/4	•

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051682



EWT(m)/EPF(n)=2/EWP(t)/EWA(h).ID/WW/JG ACC NR. AP6014823 SOURCE CODE: UR/0367/65/001/006/0958/0960 AUTHOR: Avotina, M. P.; Grigor yev, Ye, P.-Grigoryev, E. P.; Dzhelepov, B. S.; 52 ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet) TITIE: Three-hour activity of lutetium SOURCE: Yadernaya fizika, v. 1, no. 6, 1965, 958-960 TOPIC TAGS: lutetium, isomer, tantalum, proton ABSTRACT: The presence of the isomer Lu<sup>176m</sup> among the products of the deep splitting of tantalum by 660 MEV protons is confirmed. The L<sub>II</sub>-, L<sub>III</sub>-, M<sub>II</sub>-, M<sub>III</sub>-, and N-line intensities of the .88.37 ± 0.03 KEV transition in Hf<sup>176</sup> were measured. The authors thank K. Ya. Gromov for discussions of the results; N. A. Lebedev for the separation of the lutetium particles; V. Ye. Ter-Nersesyants and G. A. Mironov for assistance with the measurements. The work was carried out at the Joint Institute of Nuclear Research. Orig. art. has: 1 figure and 1 table. [Based on authors' Eng. abst.] JPRS] SUB CODE: 20 / SUBM DATE: 28Dec64 / ORIG REF: 005 / OTH REF: 003 Card 1/1 ala STREET, STREET,

GRIGOR'YEV, Ye.F.; YEGORCV, Yu.S.; ZOLOTAVIN, A.V.; SERGEYEV, V.C., SOVISOV,

On Mo<sup>90</sup> decay. Izv. AN SSSR.Ser. fiz. 29 no.5:721-728 My 165. (MIRA 18:5)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

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during the making up to in spite of the intensions. It is stated contradict duce a second 17. It basio state place at this	he decay of the high ty of Auge regarding, however the earlies of Ho <sup>+</sup> , s	degree of er electrons the natural that the er conclusing level of ided that the er and apparence ert. has:	alysis of accuracy as, it is to results on that i Hot with the it levitly the d	the result in the det not possib tron captu of the exp t is neces the charac el must be scar of Er	s shows the sermination ole to draw the in Er <sup>16</sup> seriment do sary to instend to takes	of any not tro-	
SUB CODE: 20,	18 / SUE	M DATE: non	e / ORIG	REF: 004 /	OTH REF: O	<b>02</b>	

L 31404-66 EWT(m) ACC NR. 1196022576 SCURCE CODE: UR/0048/66/030/003/0530/0553 AUTHOR: Avoting, M. P.; Grigoryev, Ye. P.; Dzhelepov, B. S.; Zolotavin. Sergeyev, V. O. ORG: Scientific Research Physics Institute, Leningrad State University (Nauchnoissledovatel skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta) TITLE: Decay of Ho sup 160 This paper was presented at the 16th Annual Conference on Nuclear Spectroscopy and Nuclear Structure held in Moscow 26 Jan-3 Feb 1966/ SOURCE: AN SSSR. Izvestiya, Seriya fizicheskaya, v. 30, no. 3, 1966, 530-553 TOPIC TACS: spectrometer, radioactive decay, nuclear physics conference, conversion electron spectrum, beta spectroscopy, particle accelerator target, synchrocyclotron, rare earth element, chromatography, ABSTRACT: This is partly a review and partly an experimental paper reporting a continuation of work on the decay of Erloo + Holoo + Holoo under improved conditions for studying the conversion electron spectrum. The study was carried out with two modernized, high-resolution, double focussing beta spectrometers: one with an equilibrium orbit of 140 mm; and the other, 500 mm. The Holoo and Holoo samples were obtained from the isotope Erico. A tantalum target was irradiated by 660 mev protons for 1.5 to 8 hrs. in a synchrocyclotron, and the rare earth group was separated chemically and then fractioned in a chromatographic column. Card 1/2

ACC NR: AP6022576

Extensive information was gathered on the conversion electron
Extensive information was gathered on the conversion electron
spectrum of Er160 + Ho160 and is presented in a 3-page table which
spectrum of Er160 + Ho160 and is presented in a 3-page table which
shows transition energies, conversion lines, Ie, multipolarity of
shows transition, conversion coefficient, gamma ray intensity,
the gamma transition, conversion coefficient, gamma ray intensity,
total intensity of the transition, and position of the transition
total intensity of the transition, and position of the transition
in the decay scheme. Detailed data is also given on many Dy160
in the decay scheme. Detailed data is also given on many Dy160
levels and transitions, and three rotational bands are established.

levels and transitions, and three locality and the results of Experimental results are compared with theory and the results of other authors. The multipolarity and intensity of the isomeric transition of Holoo is discussed, as well as the quantum characteristics of its levels, positron decay, and electron capture. The authors thank of its levels, positron decay, and electron capture. The authors thank of its levels, positron decay, and electron capture. The authors thank of its levels, positron decay, and electron capture. The authors thank of its levels, Solov'ev for discussing the results, N. A. Lebeday for the chemical and V. G. Solov'ev for discussing the results, N. A. Lebeday for help with the isolation of Er sup 160, and G. A. Mironov and M. I. Covtsov for help with the measurements. Orig. art. has: 8 figures and 10 tables. (IPRS)

SUB CODE: 20, 18/ SUBM DATE: none/ ORIG REF: 018/ OTH REF: 012

Card 2/2 10

### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051682

GRIGOR'YMV, Ye.T., inzh.; KRAVCHENKO, A.I., inzh.; MESCEROV, S.D., inzh.

Transverse elastic truck couplers for electric locomotives. Yest.
TSNII MPS 18 no.8:21-25 D '59. (MIRA 13:9)

(Electric locomotives)

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GRIGOR'YEV, Ye.T., inzh.

rerformance on curves of the N60 a.c.electr: locomotive. Vest. TSNII MPS 20 no.4:19-24 '61. (MIRA 14:7)

1. Dnepropetrovskiy elektrovozostroitel nyy zavod. (Electric locomotives)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

Four-axle Ploth a.c. electric locomotive. Elek. i tepl.
tiaga no. 7.11 Ny '61. (MIS. 1/4.7)

1. Spetsial'noye konstruktorskoye byuro Dne construktorskogo
elektrovozontroltel'nogo zavoda (for Berruche chal'nik otdela mekhanicheskoy chasti Spetsial'nogo konstruktorskogo byuro Dnepropetrovskogo elektrovozontroltel'nogo delektrovozontroltel'nogo byuro Dnepropetrovskogo elektrovozontroltel'nogo zavoda (for Hatusevich).

(Electric locomotives)

MEDEL', Vladimir Borisovich. Prinimal uchastiye GRICOR'YEV, Ye.T., insh.; PAKHOMOV, M.P., doktor tekhn. nauk, retsensent; ISOVSKIY, BOGDANOV, V.P., kand. tekhn.nauk, retsensent; LISOVSKIY, A.S., kand. tekhn. nauk; KROVORUCHKO, N.M., insh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Design of the mechanical part of electric rolling stock] Proektirovanie mekhanicheskoi chasti elektropodvishnogo sostava. Moskva, Transsheldorizdat, 1963. 422 p.

(MIRA 16:10)

(Electric railroads--Rolling stock)

L 29801-66 EWT(d)/EWF(w)/EWP(v)/EWF(k) IJF(c) WW/EM

ACC NR: AP601/217 SOURCE CODE: UR/0198/66/002/004/0039/0049

AUTHOR: Grigor'yev, Ye. T. (Dnepropetrovsk)

ORG: none

TITLE: Axially symmetric oscillation of shells with liquids 16

SOURCE: Prikladnaya mekhanika, v. 2, no. 4. 1966, 39-49

TOPIC TAGS: cylindric shell structure, nonlinear vibration, nonlinear differential equation, inviscid flow, that fluid

ABSTRACT: The nonlinear oscillations of a thin circular cylindrical shell, partially filled with an inviscid fluid, are calculated. The gravitational acceleration is assumed to be directed along the shell axis, the flow is considered irrotational, and the body forces—potential. The displacement potential  $\Phi$  is determined by harmonic functions satisfying the boundary conditions

 $\frac{\partial \Phi}{\partial R} = w(x, t) \text{ for } R = R_{\bullet}; \quad \frac{\partial \Phi}{\partial x} = u(0, t) + w_{\bullet}(R, t) \text{ for } x = 0; /$ 

$$\frac{\partial^{n}\Phi}{\partial t^{n}} + U + \frac{v^{n}}{2} + X (t) = 0 \text{ on } \sigma_{n}$$

Card 1/2

#### L 29801-66

# ACC NR: AP6014217

The displacement potential is then represented as the sum of the cylindrical shell deformation, the deformation of the shell bottom, and the oscillation of the free liquid surface. Expressions are derived for the liquid surface, normal component of the liquid velocity, the shell displacement (using the Bubnov-Galerkin method), and the pressure acting on the shell from the liquid side. Finally, the set of equations

$$\begin{split} \sum_{l} (\alpha_{ij}q_{j} + \beta_{ij}q_{j}) + \sum_{k} (\lambda_{ik}q_{mk} + \gamma_{ik}q_{mk}) + \sum_{m} \lambda_{0lm}q_{0m} = F_{l}(l), & l = 1, 2, \dots, \\ \sum_{k} (\mu_{lk}q_{mk} + c_{lk}q_{mk}) + \sum_{l} (\lambda_{jk}q_{j} + \gamma_{l}q_{j}) + \sum_{m} \Delta_{lm}q_{0m} + \kappa_{l}a_{i} + \\ & + E_{li}a_{i}a_{1} + E_{M}a_{i}a_{1}^{2} + E_{M}a_{i}^{2}a_{1} + E_{M}a_{1}^{2}a_{1} + E_{M}a_{1}^{2} = 0, & l = 1, 2, \dots; \\ \sum_{m} (\mu_{0mn}q_{0m} + c_{0mn}q_{0m}) + \sum_{l} \lambda_{0ln}q_{j} + \sum_{k} \Delta_{kn}q_{mk} = 0, & n = 1, 2, \dots; \\ B_{l}a_{1} + 0ga_{1} + \sum_{k} \kappa_{k}q_{mk} + B_{k}a_{1}a_{1} + B_{k}a_{1}a_{1}^{2} + B_{k}a_{1}^{2} + B_{k}a_{1}^{2} + B_{k}a_{1}^{2} = 0, \end{split}$$

is obtained for the oscillation of the shell-liquid system. A special example is considered to study the character of these oscillations, and the solution is obtained by successive approximations. Numerical values are given for the resonance conditions in the oscillation of the liquid-shell system. Orig. art. has: 26 equations.

Cord 2/2 GUB CODE: 20/ SUBM DATE: 03Apr65/ ORIG REF: 003

GRIGOR'YEV, Ye.V.; PLATONOV, G.M.; GOLUBENKO, N.I.; LOVCHINOVSEIY, E.V.

Improvement of the drive of a vibrating, self-balancing, and self-centering grizzly. Metallurg 10 no.5:14 My '65.

(MIRA 18:6)

1. Metallurgicheskiy zavod imeni Ezerzhinskogo i zavod-vtuz imeni Arsenicheva.

# GRIGOR'YEV, Ye.Ye. (Leningrad)

Case of severe anaphylactic reaction after the administration of streptomycin. Klin.med. 38 no.10:123-324 0 360.

(MIRA 13:11)

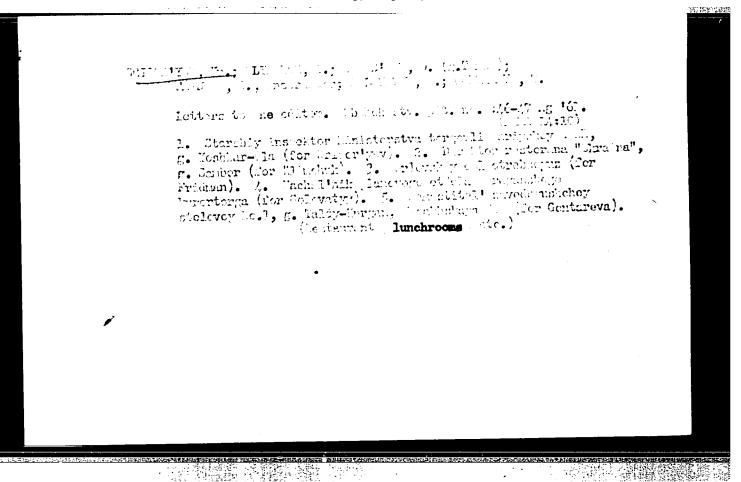
1. Iz 3-y khirurgicheskoy kliniki (zav. - prof. N.I. Hlinov)
Gosudarstvennogo ordena Lenina instituta usovershemstvovaniya
vrachey imeni S.M. Kirova.
(STREPTOMYCIN) (ANAPHYLAXIS)

BLINOV, N.I., professor (Leningrad, Nevskiy pr., d.27, kv.69); GRIGOR'YEV, Ye.Ye.

Adhesive disease and its treatment with Nobel's operation.
Vest.khir. no.1:63-68 \*62. (MIRA 15:1)

1. Iz 3-y khirurgicheskoy kliniki (zav. - prof. N.I. Elinov)
Leningradskogo ordena Lenina instituta usovershenstvovaniya
vrachey (dir. - dotsent A.Ye. Kiselev).

(ADHESIONS (ANATOMY)) (SURGERY)



GRIGOR'YEV, Yu.; MINAYEV, Yu.

Work practices on the tanker "Lyubertsy." Mor. flot 24 no.12:14-16 D \*64.

1. Kapitan tankera "Lyubertsy" (for Grigor'yev). 2. Nachal'nik sluzhby ekspluatatsii Kaliningradskoy bazy rybolcvnogo refrizheratornogo flota (for Minayev).

CRICORYLL, Yu. H.

AID P - 1186

Subject

: USSR/Electricity

Card 1/1

Pub. 29 - 8/27

Author

Grigor'yev, Yu. A., Eng.

Title

Ways of determining analogous coil terminals of induction

motor windings

Periodical: Energetik, 12, 11-12, D 1954

Abstract

: The author explains the methods recommended by the authors

R. G. Gemke in his book <u>Neispravnosti elektricheskikh</u> mashin (Defects of Electrical Machinery), Gosenergoizdat, 1947 and B. A. Kudrov in his article in Energetik, 1953,

No. 2. Two diagrams.

Institution: None

Submitted

: No date

GRIGOR'YRY. Yu. (g. Mytishchi, Severnaya zheleznaya doroga) GUMBURG, D.

(g. Rytishchi, Severnaya zheleznaya doroga)

Improve signaling and communications work in railroad transportation.

Sots.trud. no.2:137-138 F '57.

(Railroads--Signaling)

(Railroads--Signaling)

# Determining phase relationships in rail circuits. Avton., telem. i svias' no.4:31 Ap '57. (MLRA 10:5) 1. Starshiy inshener laboratorii signalizatsii i svyazi Severnoy dorogi. (Railroads--Signaling)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

AUTHOR: Grigor yev, Ye. S., Engineer (Severodvinsk) S04/94-58-8-5/22

TITLE: Supplying Power to Circuits Using Selenium Rectifiers for Power-driven Cirts (Pitaniye sett samokhodnykh telezhek s primeneniyem selenovykh vypryamiteley)

PERIODICAL: Promyshlennaya Energetika 1958 Nr 8; p 14 (USSR)

ABSTRACT: At the author's works power-driven trucks one used for inter-departmental transport. Each truck has a 6.2 kW motor driven by direct current from a trolley wire; the current is supplied by two welding generators connected in series. These generators have to be kept running all the time, which is uneconomical and the author suggested that they should be replaced by selenium rectifiers. Not enough selenium rectifier elements were available and so the voltage on each element was somewhat increased and the complete rectifier was installed in a tank of transformer oil. The circuit diagram is given. The installation has worked well for six months and even in summer the cil temperature did not exceed the limiting value for the rectifiers, which is 75°C. There is one figure.

Gard 1/1

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

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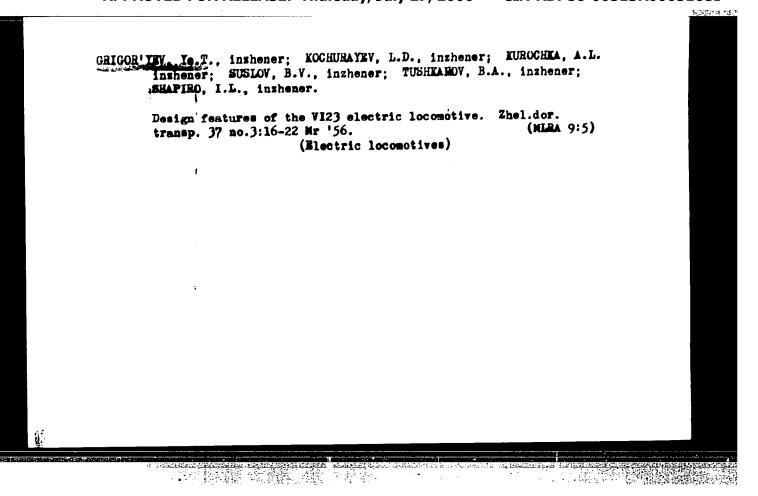
GRIGOR'YEV, Ye.T., inzhener; KRAVCHENKO, A.I., inzhener.

Utilizing trailing weight of type 2-2 electric locomotives. Vest. TSNII MPS 15 no.2:22-25 \$ '56. (MIMA 9:12)

1. Novocherkasskiy elektrovozostroitel'nyy zavod imeni S.M. Budennogo.

(Blectric locomotives)

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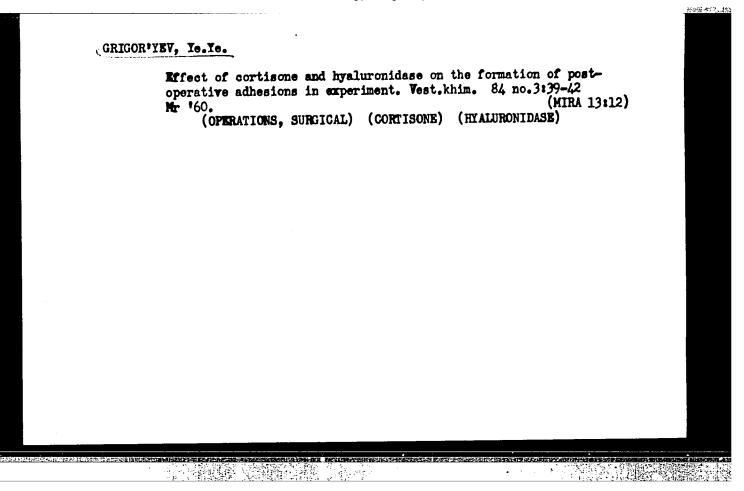


GRIGOR'YEV, Ye.T., inzh. KRAVCHENKO, A.I., inzh.

Using the adhesien weight of electric lecomotives with oblique traction. Vest. TSNII MPS 17 ne.8:23-27 D 158. (MIRA 12:1)

1. Novecherkasskiy elektrovesestreitelinyy saved. (Electric lecemetives)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820



Our consultations. Sov.profesoiuzy 18 no.14:44-45 J1 '62.

(:IIIA 15:7)

1. Zaveduyushchaya otdelom truda i zarabotnoy platy "Sontral 'nogo komiteta profesoyuza rabochikh pishchevoy promyshlennosti (for Dolgopolova).

(Wages--Fisheries) (Sanatoriums) (Sick leave)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

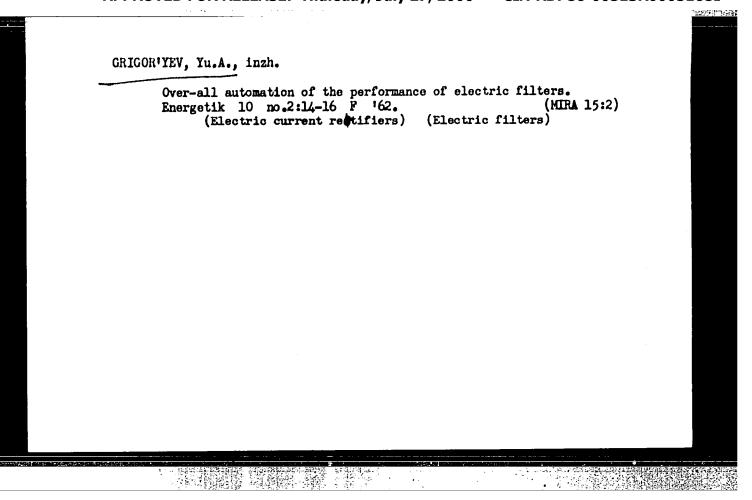
SHURIN, S.P.; CHASOVSKIKH, G.G.; MIKHAYLOVA, L.P.; GRIGORYYEV, Yu.A.; MELESHIN, S.V.

等數數學

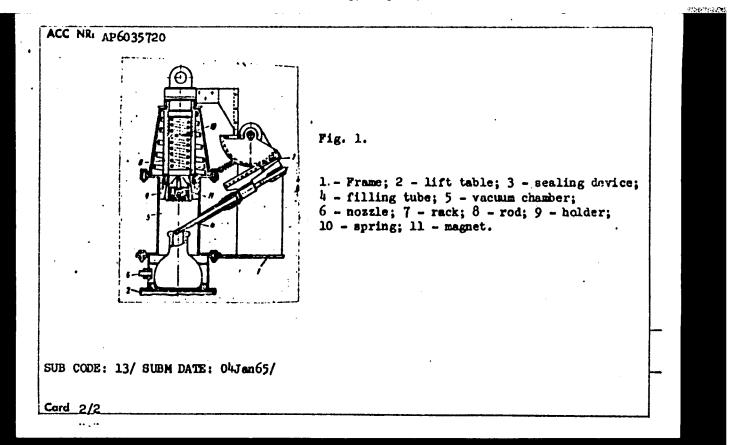
Effect of heparin on cells of malignant tumor in tissue culture. Biul. eksp. biol. i med. 57 no.3:85-88 Mr 164.

(MIRA 17:11)

1. Novosibirskiy meditsinskiy institut. Fredstavlena deystvitel'-nym chlenom AMN SSSR N.N. Zhukovym-Verezhnikovym.



	ACC NR: AP6035720 (A) SOURCE CODE: UR/0413/66/000/019/0082/0082	
	INVENTOR: Shashurin, Yu. S.; Ryushenko, N. M.; Grigor'yev, Yu. A.	
	ORG: none	
	TITIE: Machine for dispensing, bottling and sealing mercury. Class 40, No. 186684	
	SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, &2	
	TOPIC TACS: mercury, mercury production, mining anginearing packaging machine, chanical plant agains with and losses of mercury and improve sanitary work conditions, this mercury dispensing, bottling, and sealing machine (see Fig. 1) is provided with an immobile vertical cylindrical vacuum chamber; this chamber contains a hollow piston, power-driven piston rod, and bottling unit. The latter consists of a plunger with a magnet fixed to its bottom end; a holder or chuck and a spring are mounted in the piston cavity. The machine is complete with a vacuum pump, filling tube, lifting table, and pedestal. Orig. art. has: 1 figure. [WA-96]	
	Cord 1/2 inc: 621.798.37.4-189.2:669.791-982	
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GRIGOR'IEV, Yu.A.; SEDOV, V.A.

Overall automation of the electric system of electrostatic filters.
TSement 28 no.1:19-20 Ja-F '62, (MIRA 16:5)

(Automatic control) (Dust collectors)

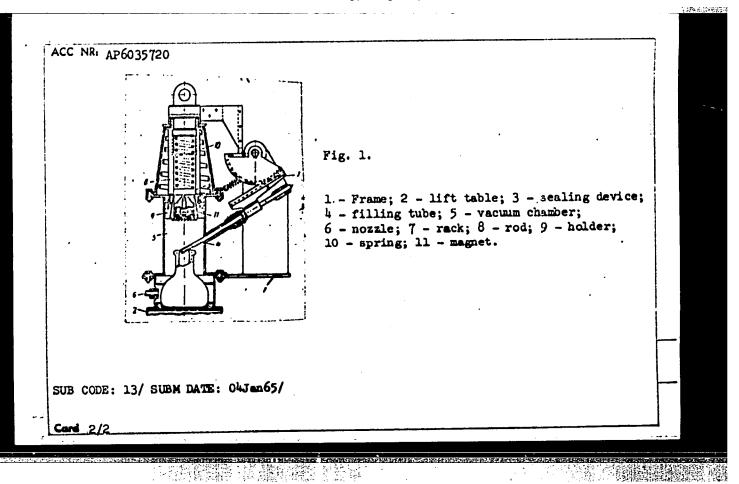
GRACHEV, Nikolay Pavlovich; GRIGOR'YEV, Yuriy Alekseyevich; MUKHIN,
Aleksandr Fedorovich; KAKHOVSKAYA, O.G., red.izd-va; VEYTSMAN, N.R., red.;
PAVLOVSKIY, A.A., tekhn. red.

[Accounting in the foreign trade of the U.S.S.R.] Uchet vo vneshnei torgovle SSSR. Moskva, Vneshtorgizdat, 1962. 300 p. (MIRA 16:2)

(Accounting) (Russia-Commerce)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

ACC NR: AP6035720 (A) SOURCE CODE: UR/0413/66/000/019/0082/0082	
INVENTOR: Shashurin, Yu. S.; Ryushenko, N. M.; Grigor'yev, Yu. A.	
ORG: none	
TITIE: Machine for dispensing, bottling and sealing mercury. Class 40, No. 186684	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 82	
TOPIC TACS: mercury, mercury production, mining angineering packaging machine, chemical plant againsment  ABSTRACT: To prevent exidation and losses of mercury and improve sanitary work conditions, this mercury dispensing, bottling, and sealing machine (see Fig. 1) is provided with an immobile vertical cylindrical vacuum chamber; this chamber contains a hollow piston, power-driven piston rod, and bottling unit. The latter consists of a plunger with a magnet fixed to its bottom end; a holder or chuck and a spring are mounted in the piston cavity. The machine is complete with a vacuum pump, filling tube, lifting table, and pedestal. Orig. art. has: 1 figure. [WA-96]	
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Card 1/2 UDC: 621.798.37.4-189.2:669.791-982	



GRIGOR'YEV, Yu.D., inzh.; SAYKO, A.V., inzh.

Design of the anchoring of suspension insulator chains with consideration of the lashing of wires. Elek. sta. 34 no.3:84-86 Mr 163. (MIRA 16:3)

(Electric lines-Overhead)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516820

USSR/Medicine - Radiology

FD 216

Card 1/1

Author

: Domshlak, M. P.; Grigor'yev, Yu. G.; Rayevskaya, S. A.

GRIGORIYEV, Va. G.

Title

: Experiment on treating polycythemia with radioactive phosphorus

Periodical: Vest Rent. i Rad. 56-63, Mar/Apr 1954

Abstract

: Radioactive phosphorus taken orally, does not have side effects. The optimum dose taken over a period of a month is considered to be six millicuries, although smaller amounts can be taken with success. Remission commences within 2-3 months after administering the radioactive phosphorus and continues for 2 1/2 years. Seven references; three USSR.

Four tables.

ORIGOR'YEV, Yu.Q., kandidat meditsinskikh nauk

Effect of radiations on primary functional changes in the cerebral cortex. Vest. rent i rad. no.5:3-10 S-0 '54. (MLRA 7:12)

(RADIATIONS, effects, on crebral cortex)

(CEREBRAL CORTEX, effect of radiations on,)

# GRIGOR YEV, Yu. G.

"Some Results of the Use of Nicotinic Acid in the Clinical Aspect of Complications of Radiation Therapy," by Yu. C. Grigor'yev, Meditsinskaya Radiologiya, Vol 1, No 4, Jul/Aug 56, pp 67-70

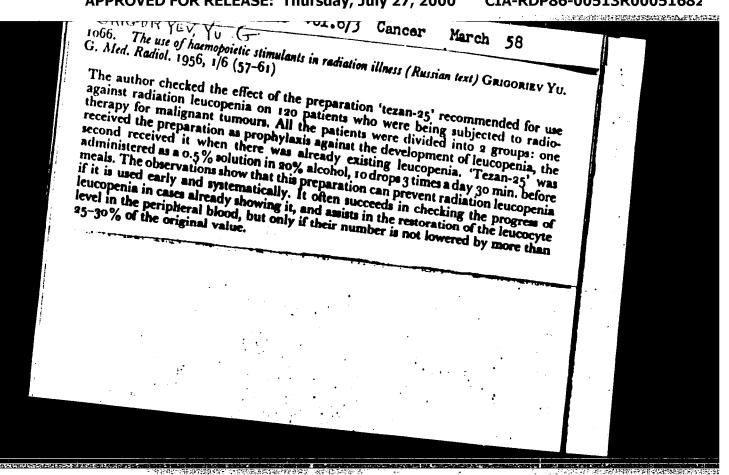
Studies were conducted on 50 patients under the direction of M. P. Domshlak. Irradiation was in connection with neoplasms or their prophylaxis. Doses ranged from 150 — 350 r for local and 25 — 50 r for general irradiation, and totaled 1,000 to 9,000 r for local and 150 — 200 r for general ation, and totaled 1,000 to 9,000 r for local and 150 — 200 r for general irradiation. Nicotinic acid was taken in .02 g per dose, 3 — 4 times per day.

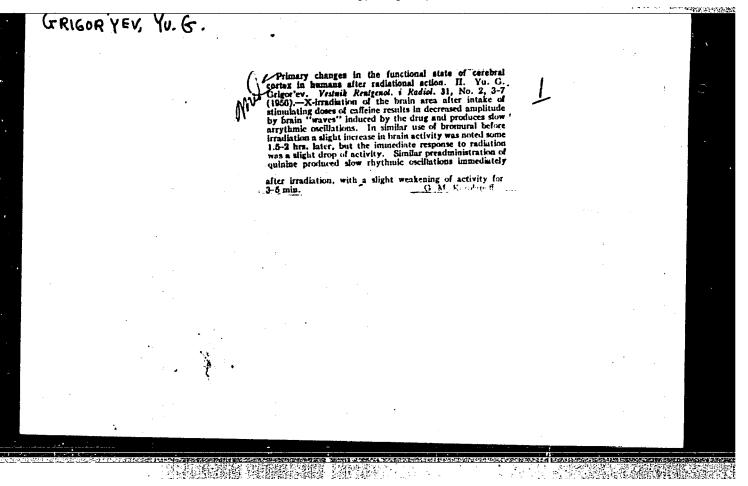
Results on the use of nicotinic acid point to a negative effect on the prevention of the "general reaction." No positive influence of nicotinic acid was observed in connection with leukopenia which had developed as a result of irradiation. Nicotinic acid used in cases where the "general reaction" had already appeared showed definite positive effect.

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CIA-RDP86-00513R00051682

GRIGOR YEV, Yu.G., kandidat meditsinskikh nauk (Moskva) Some problems in the classification and clinical aspects of acute radiation sickness in humans. Klin.med. 34 no.3:12-25 Mr 156. (RADIATION SICKMES. (MLRA 10:1) classif. & clim. aspects (Rus)) 

T

USSR/Human and Animal Physiology (Normal and Pathological). Effect of Physical Factors. Ionizing Emissions.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 80129.

: Change of Blood Pressure During Radiation Activity. Grigor' yev Yu. G. Author

Orig Pub: Med. radiologiya, 1957, 2, No 1, 47-54. Inst Title

Abstract: The blood pressure (DP) in rabbits was measured by the blood-dyeing nethod in the course of X-ray exposure (and after it) with doses of 630 r (with power of the dose 30 r in 1 minute). In all cases a significant drop of EP was observed, beginning, a significant arop of ir was observed, beginning, as a rule, in the course of exposure (both in the first ninute of exposure and through 30-60 minutes after the beginning). In some rabbits, some increase

: 1/2 Card

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2000

<u>CIA-R</u>DP86-00513R000